Objective 9.9:

Reduce nonfatal head injuries so that hospitalizations for this condition are no more than 106 per 100,000 people.

Nonfatal Head Injuries (per 100,000) 118 Total population ICD-9 codes,800-801,803-804,580-854,870-873,925	1988 Baseline
115	1
110	<u>1989</u> <u>1990</u> <u>1991</u>
104	199
92	1 1992
90	1993
84	<u>1994</u>
87	<u>1995</u>
79	<u>1996</u>
75	1997
106	2000 Target

Barriers:

Lack of perception of risk while participating in sports activities.

absorbing material (may be costly). Many old playground surfaces need to be resurfaced with impact

residential backyards with climbing equipment, pose a risk for head Non-institutionalized areas where children play, for example,

bicycle helmets, and drinking while driving. Lack of enforcement of state laws for safety belts, motorcycle and

diagnosis data. Poor specificity of injury data, especially causal information and

Strategies:

automobile occupants to wear safety belts or child safety restraints. Encourage passage of State laws and ordinances requiring all motorcyclists and bicyclists to wear helmets, and all drivers and

Action Plan for Playground Safety. Encourage dissemination on and implementation of the National

Strengthen vehicle requirements to prevent roof crushes and rollovers.

equipment; promote construction of impact absorbing playground Increase activities directed at prevention of falls from playground

Promote use of protective gear in sports events

Objective 9.10: Reduce nonfatal spinal cord injuries so that hospitalizations for this condition are no more than 5 per 100,000 people.

	1988 Baseline	<u>1989 1990 1991 </u>	<u>1990</u>	<u>1991</u>	1992	<u>1992</u> <u>1993</u> <u>1994</u>	1994	1995	<u>1996</u>	1997	2000 Target
Nonfatal Spinal Cord Injuries (per 100,00) Total population	5.3	3.8	4.4	6.4	3.6	4.7	3.9	4.6	4.8	4.8	5.0
Special Population Target											
9.10a Males (aged 18-24)	9.6	4.7	6.9	9.8	4.8	6.7	7.1	6.9	6.5	6.1	7.1

Barriers: Failure to use protective gear and safety devices

Lack of perception of risk while doing routine activities such as

driving, swimming.

especially in rural areas of the country. Limited access to trauma care services by under-served populations,

changes compatible with reducing spinal cord injury. Possible cost prohibitions for automobile manufacturers to make design

information, lack of enforcement of helmet and belt laws. Poor specificity of injury data, especially causal and diagnostic

Strategies:

safety belts, child occupant restraint systems Promote passage of State laws that require primary enforcement of

integrity including side-impact protection and energy absorbing interior Promote automobile design changes to improve occupant compartment

development of interventions for rural areas. Establish guidelines for trauma care systems, and encourage

Target fall-related interventions for seniors and children.

Promote usage of protective gear in sporting events

increase the likelihood of rehabilitation after a non-fatal unintentional Conduct research of behavioral and environmental modifications that

Objective 9.11 (Revised) cord injuries. Reduce by 20% the incidence of secondary conditions (i.e., pressure sores) associated with traumatic spinal

Note: Secondary conditions are defined as conditions causally related to a disabling condition (i.e., occurring as a result of the primary disabling condition) and can be either a pathology, an impairment, a functional limitation, or a disability.	None Available 20% reduction	Baseline 2000 Target ,
primary disabling		-

Barriers: Little is currently known about the incidence and prevalence of secondary conditions (i.e., pressure sores) among persons with traumatic spinal cord injuries. Existing data systems do not contain information about the incidence and prevalence of secondary

conditions or the casual factors,

Access of certain groups to appropriate care, poor coordination of care phases (i.e., from primary to rehabilitation).

Baseline incidence data are needed to assess a 20% reduction in secondary conditions.

Technological improvements are needed in the equipment used for seating. There are few community-based systems of care that include behavioral training and strategies for prevention of secondary conditions.

Strategies: Dev

Develop and implement strategies to determine the incidence of secondary conditions and associated risk factors.

Conduct research to determine the human and economic consequences of traumatic spinal cord injury and associated secondary conditions.

Assist States in the development of data systems to define the occurrence and impact of secondary conditions. These data will be used to develop, implement, and evaluate innovative approaches for the prevention of secondary conditions.

Objective 9.12: Increase use of safety belts and child safety seats to at least 85% for motor vehicle occupants.

										Control of the Contro	Control of the Contro
Use of Safety Belts and Child Restraints	1988 <u>Baseline</u>	<u>1989</u>	<u>1989</u> <u>1990</u>		<u>1991</u> <u>1992</u>	1993	1994	<u>1993</u> <u>1994</u> <u>1995</u> <u>1996</u> <u>1997</u>	<u>1996</u>	1997	2000 Target
Motor Vehicle Occupants	42%	47%	49%	59%	62%	66%	67%	68%	68%	69%	85%
Special Population Target											
9.12a Use of child restraint systems among children aged 4 and younger involved in potentially fatal crashes	48%	1	50%	55%	I	60%	60%	ı	61%	I	70%
Note: Youth Risk Behavior Survey (YRBS) data indicate that in 1992, 34.2% of high school students reported that they "always" used safety belts when riding in a car or truck, 82% wore seat belts "some of the time".	f high school	students	reported	that they	, "always	" used s	afety beli	's when ri	ding in a	car or tri	uck, 82%

Barriers: Resistance of some people to use safety belts and child safety seats.

Loopholes in child safety seat laws in some states

Lack of enforcement of existing safety belt and child restraint laws.

Most states do not have primary enforcement of safety belt laws.

Misunderstanding by the public that airbags must be used with occupant restraint system to be full effective.

Lack of access to child safety seats by low income populations.

Alcohol has been associated with failure to use seatbelts.

Strategies:

Encourage passage of primary safety belt laws for States and Indian Reservations; promote education on proper use and benefits of use; develop, implement, and evaluate intervention programs in coordination with enforcement; encourage enforcement of fines for failure to restrain children.

Establish permanent fitting stations for child safety seats.

Enforce existing child safety seat laws.

Promote booster seat give-away programs.

Promote booster seat use among parents of children who have outgrown child safety seats.

Increase counseling efforts among health care providers.

Increased enforcement of current occupant laws.

ective 9.13: Increase use of helmets to at least 80 percent of motorcyclists and at least 50 percent of bicyclists.

earing a	enorted w			38.4% wh	helmets;	never" using helmets; 88.4% who rode bicycles reported wearing a	", " " "loan", t	e reported	motorcycle	nts who rode	1997 YRBS data indicate that 21.0% of high school students who rode motorcycles reported "rarely" or "neve
50%			I	ı	!	1	18%	1	1	8%	ists
80%	1	2	l	63	1	-	62%	60%	60%	60%	cyclists
2000 Target	1993 1994 1995 1996 1997 2000 Targe	1996	1995	1994	1993	1992	1991	1990	1989	1988 Baseline	et Use

ers:

although attitudes vary by age, SES, and exposure to multifaceted General societal reluctance to use motorcycle and bicycle helmets programs.

motorcycle helmets. Activists movements to repeal existing helmet laws requiring use of

Lack of accessibility due to costs of purchasing helmets for certain

Passage of inadequate bicycle helmet use laws, requiring only young

riders to wear helmets.

school administrators in an effort to require children to wear helmets when riding bicycles to school. Lack of coordination among injury practitioners, safety experts and

because there is no nationwide injury surveillance system for non-fatal Injuries resulting from failure to use helmets are under-reported

bicycle helmets, but do not address how roadways can better accommodate bicyclists to prevent the occurrence of a crash. Performance standards and educational efforts relate to the use of

some communities (affecting 42% of children 0-14 years old), Although mandatory helmet use laws exist in 15 states and these are rarely enforced and/or upheld in court. Recent studies indicate dramatic effectiveness when legislation is enforced.

Motorcyclist: National Highway Traffic Safety Administration, Department of Transportation

Source:

Strategies: information on the effectiveness of motorcycle and bicycle helmets in Implement a multi-agency national campaign to disseminate

preventing head injuries.

performance and acceptability. Support helmet design changes and standards that improve

helmets when riding bicycles to school. Encourage community collaborative efforts to require children to wear

motorcycles and bicycles at the point of purchase Encourage manufactures and retailers to include helmets with

guidelines to states for local implementation. Develop guidelines for bicycle helmet interventions; disseminate

Promote positive role models who ride and wear helmets

bike helmet use in the absence of legislation. Conduct research to demonstrate the efficacy of health promotion for

Objective 9.14: Extend to 50 states laws requiring safety belt use for all ages and universal motorcycle helmet use

Data represent jurisdictions with "universal" helmet laws (covering all ages). In 1994 an additional 22 jurisdictions had age specific helmet use laws	Universal Motorcycles Helmet Use Laws (Laws with conditions for age and position)	Universal Safety Belt Use Laws	States with Safety Belt and Motorcycle Helmet Laws
4 an addition	22	33	1989 <u>1990</u> <u>Baseline</u>
ul 22 juri	23	36	<u> 1990</u>
sdictions	24	41	
had age	24	44	1992
specific .	25	45	1993
helmet us	25	48	<u>1994</u>
ie laws.	25	49	<u> 5661</u>
	25	49	<u>1991 1992 1993 1994 1995 1996 1997 </u>
	22	49	<u>1997</u>
	50	50	2000 Target

The District of Columbia and Puerto Rico have safety belt and motorcycle helmet laws. Several U.S. territories also have safety belt laws

Barriers:

Lack of understanding about the effectiveness of primary safety belt laws and universal helmet use laws in preventing deaths and injuries

enforcement and nullify effectiveness. Lack of awareness that partial or age specific helmet laws hinder

groups lobby against the passage of universal helmet laws and/or for the repeal of existing laws. Advocacy of personal rights verses public health and safety; activist

effectiveness of helmets in the prevention of head injuries. Lack of media attention to scientific studies demonstrating the

injuries is inadequate Available data on society's costs for motorcycle crash-related head

policy makers need educational information to assist them in decision Repeal of motorcycle helmet laws in some states; legislators and local

motorcycle helmets. Inconsistent enforce of existing laws requiring safety belts and

Strategies:

aw Encourage passage of primary safety belt laws in states with secondary

Encourage use of safety belts in all sitting positions in all vehicles.

in the development and dissemination of appropriate materials about the effectiveness of motorcycle helmets. Implement a national campaign that includes non-traditional partners

motorcycle helmets Encourage Indian reservations to require usage of safety belts and

Provide adequate incentives to states for adoption of safety belt and helmet laws.

use through the implementation of community-based programs. Raise awareness of the benefits of safety belt and motorcycle helmet

programs, legislation and policies Routinely evaluate the effectiveness of helmet promotion intervention

motorcycle and bicycle crash-related head injuries Acquire better data on the costs of injuries to society caused by

Objective 9.15: Enact in 50 States laws requiring that new handguns be designed to minimize the likelihood of discharge by children.

Handgun Design Laws to Protect Children	1989 <u>Baseline</u>	1990	<u> 1991</u>	1993	1993 1994 1995	<u>1995</u>	<u>1997</u>	1998	1999	2000 Target
States with design laws	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50
States with design laws	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	50

Barriers:

Lack of consensus about the most appropriate technical approach to use in the development of safety locks that effectively prevent accidental discharge by children.

There is no consensus that handgun design changes will be as effective as regulations requiring gun control.

Only 17 states currently have legislation designed to prevent discharge of handguns by children.

General public is not aware of the need for safety locks on handguns.

Strategies:

Research and develop effective technological design features to reduce the risk of unintentional discharge by children, including child-proof safeties/trigger locks and ammunition loaded indicators.

Review and compile current literature, patents, and technological developments into an evaluative report.

Encourage community level support for design modifications through community-based organizations.

Develop educational materials to promote child safety, and encourage manufacturers and retailers to include these in packaging handguns.

Encourage the establishment of regulatory authority for safety standards for handguns.

Objective 9.16: Extend to 2,000 local jurisdictions the number whose codes address the installation of fire suppression sprinkler systems in those residences at highest risk for fires.

Fire Suppression Sprinkler System Installation	1989 <u>1990</u> Bascline	1990	1991	1992 1993	1993		2000 Target
Local jurisdictions	700	700	700	700	700	Data no longer available	2,000
Percentage of fires in residential properties equipped with fire suppression sprinklers	2.4	2.6	2.7	2.7	2.6		
The state of the s							

Barriers:

New home buyers are not consistently offered the opportunity to have sprinkler systems installed during construction.

Residents at highest risk for home fires often live in sub-standard housing for which the cost of retrofitting would be prohibitive.

Lack of perceived value of sprinkler systems

Local building codes often do not require installation of sprinkler systems in new construction or retrofitting existing residential dwellings.

Strategies:

Encourage municipal codes that require new family dwellings to include fire suppression sprinkler systems.

Encourage passage of local ordinances to require sprinkler codes retroactively to target high rises, multifamily units, and manufactured housing.

Provide technical assistance to communities interested in passing local ordinances relative to sprinkler systems.

Objective 9.17 Increase the presence of functional smoke detectors to at least one on each habitable floor of all inhabited residential dwellings.

*Data are from the National Health Interview Survey and represent the portion of the people living in apartment and condominiums and report having one or more smoke detectors	Smoke detector present in the residence	At Least One Smoke Detector Each Floor
e people livir	81%	1989 Baseline
ıg in apaı	82%	<u>1990</u>]
tment an		1991
d condom	66%*	<u>1992</u>
iniums an	66%* 86.8% 92.7%	1993
d report h	92.7%	1994
aving one		1995 1996
or more		1996
smoke de		1997
tectors,	100%	2000 Target

and the proportion of people living in town houses or single family homes who report having two or more smoke detectors

Lack of perceived value of installation, particularly among residents of low-income units.

Barriers:

Strategies: Promote modification of Federal regulations to require hard wired smoke alarms with battery backup in construction of new residential

Availability of lithium powered 10 year battery is not well publicized; cost can be prohibitive to low income families.

Promote collaboration among multiple community-based programs.

Improper placement of smoke alarms within residences.

Promote nationwide education program to teach the public how to properly place and maintain smoke alarms.

Failure of residents to check battery monthly, change battery when needed, and replace smoke alarm after ten years of use.

Target low income families for distribution and installation of low cost or free smoke alarms.

Residents disconnect smoke alarms because of "nuisance" factor.

Encourage education programs that target young children and older adults (highest risk groups).